

Urban Waters Federal Partnership Potential Measures/Indicators

General Points

- Each location would pick which measures to use
- All measures used will have data each year
- All measures used would be measured over time to show trends
- All information on measures actually collected locally would be transmitted annually to a national repository

Category	Indicator	Description	Measure
I. Partnership Process Measures			
Communication	Information Exchange	Number of documents distributed to stakeholders	1. Count of documents distributed to stakeholders at meetings (#) 2. Count of documents requested by stakeholders (#) 3. Count of documents downloaded from website (#)
	Quality of Information	Stakeholder perception of quality of information	1. Count of positive stakeholder comments on documents (#) 2. Count of negative stakeholder comments on documents (#)
	Stakeholder Engagement	Stakeholder participation in meetings	1. Number of joint federal and stakeholders meetings held (#) 2. Count of stakeholders at meetings (# by local, state, national) 3. Stakeholder comments/inputs at meetings (# by local, state, national)
	Stakeholder Partnerships	Partnership agreements with stakeholders	1. Partnership agreements signed (#) 2. Stakeholders represented in partnerships (# of local, state, national partners) 1. Percent of national partner agencies involved in the partnership (out of total national agencies) (%) 2. Organizations in distressed communities at the location are included in the Partnership (yes or no)
	Collaborative Projects	Projects due to partnership agreements	1. Projects proposed by stakeholder partnerships (#) 2. Project plans developed by stakeholder partnerships (#) 3. Projects executed by stakeholder partnerships (#)
	Federal Contribution	Value added by federal government	1. Number of federal-to-federal meetings held (#) 2. Data/technical assistance provided by federal government (#) 3. Incidence of data/technical gaps federal agencies cannot contribute (#)

II. Community Capacity Building			
Governance	Community Accountability	Project accountability owned by community	1. Proportion of projects with community/local group responsible for accountability (%)
	Project Management	Quality of project planning, monitoring, and evaluation	1. Number of projects with developed strategic plans (goals, strategies, activities, monitoring, evaluation) (#) 2. Number of projects with operational plans (#) 3. Number of project plans that address socio-economic needs of community (#) 4. Number of project plans that focus on key issues (# by land use, watershed, restoration, site clean-up, wildlife)
Skills Transfer	Technical Training	Technical training opportunities and use	1. Number of technical training opportunities (#) 2. Number of stakeholders or community members attending training (#)
Leveraging of Resources	Leveraging of Resources	Contribution of multiple partners to activities	1. Number of partner federal agencies contributing in-kind resources (#) 2. Monetary contribution and in-kind hours by federal partner agencies committed and spent in the year, by federal agency (\$) 3. Monetary contribution and in-kind hours by non-federal partner agencies committed and spent in the year (\$)
III. Environmental Measures			
General Points <ul style="list-style-type: none"> Each measure applies only to the waterbodies included in the Location's Urban Waters Partnership Workplan Information would be collected, stored and reported by the State Clean Water Act agency 			
Water Quality	Short-Term Impaired Water Quality (Annual)	Stream segments designated as impaired	1. Number of stream segments designated as impaired according to the CWA 303d list (#)
		Impaired streams covered by TMDL	1. Percent of impaired streams covered by Total Maximum Daily Loadings (TMDL) developed by state and approved by EPA (%)
		TMDL streams with implementation plan	1. Percent of impaired waters with EPA-approved TMDLs with implementation plans in place (%)

	Long-Term Impaired Water Quality (Every 5 Years)	Stream segments meeting designated use	<ol style="list-style-type: none"> 1. Count of stream segments meeting designated use as drinking water supply (#) 2. Count of stream segments meeting designated use as -fish and shellfish consumption (#) 3. Count of stream segments meeting designated use as recreation (#) 4. Count of stream segments meeting designated use as aquatic life (#)
		Stream segments designated as impaired	<ol style="list-style-type: none"> 1. Number of stream segments listed as impaired (#) 2. Percent of required stormwater plans approved by EPA or State for the jurisdictions in the locations area (%) 3. Number of stream segments formerly impaired within project area now attaining water quality standards (no longer impaired) (#) 4. Number of fish consumption advisories in place or eliminated (#)
		Water Contamination	<ol style="list-style-type: none"> 1. Count of acres of contaminated sediments removed (#) 2. Pounds of nitrogen and phosphorous (#) 3. Pounds of sediment Percent reduction in toxic contaminants in sediments and water column (%) 4. Number of pounds of marine debris removed (#)
	Drinking Water	Safety of drinking water and source protection	<ol style="list-style-type: none"> 1. Percent of population served by community drinking water systems violating health-based requirements (%) 2. Percent of population served by unfiltered surface water systems at risk from microbiological contamination (%) 3. Percent of population served by community drinking water systems exceeding lead action levels (%) 4. Count of source water assessment and protection plans in place (#) 5. For public water systems, percent of source water assessment and protection plans in place (%)
	Air Quality	Attainment of criteria pollutant air quality standards	<ol style="list-style-type: none"> 1. Clean Air Act attainment classification 2. Count of "code red" days (#)
		GHG emissions and energy use	<ol style="list-style-type: none"> 1. GHG emissions per capita (tons) 2. Household energy consumption (Btu)
Eco-system	Ecosystem Health – Terrestrial	Terrestrial habitat, species, and ecosystem health	<ol style="list-style-type: none"> 1. Population of selected "indicator" species (#) 2. Rate of topsoil loss per year (#) 3. Percentage tree canopy (%) 4. Degree and rate of fragmentation of ecosystem by types (#, %) 5. Number of species experiencing reduced range (#) 6. Number of native species (terrestrial) at risk (#)

	Ecosystem Health - Aquatic	Aquatic habitat, species, and ecosystem health	<ol style="list-style-type: none"> 1. Number of fish kill incidents (#) 2. Number of days with low dissolved oxygen events (#) 3. Number of native species (aquatic) at risk (#) 4. Percent of river and stream miles designated as healthy using Biological Integrity Assessments (%) 5. Number of relevant waterbodies with eutrophication problems (#) 6. Percent of water bodies with healthy biological communities (%)
Waste	Community sanitation	Sanitation in community infrastructure	<ol style="list-style-type: none"> 1. Percent of dirty streets and alleys (%) 2. Percent of clogged storm drains (%) 3. Number of rat incidents (#)
	Access to sanitation services	Proportion of community served by sanitation services	<ol style="list-style-type: none"> 1. Percent of people with access to adequate sanitation, trash pick-up/disposal (%) 2. Percent of population served by wastewater treatment (%)
	Waste Management	Management of hazardous and household waste	<ol style="list-style-type: none"> 1. Pounds of hazardous waste generated (#) 2. Pounds of municipal waste per capita (#) 3. Percent of hazardous waste managed by type of method (%) 4. Number of brownfield properties cleaned up and converted to economic reuse (#) 5. Percent of solid waste landfilled, recycled, or incinerated (%)
Climate Change	Air - Atmospheric	Parameters that capture changes potentially attributable to climate change	<ol style="list-style-type: none"> 1. Mean annual and seasonal temperatures (degrees Fahrenheit) 2. Diurnal maximum, minimum, average and range (degrees Fahrenheit) 3. Days of air quality standards not met (see Air Quality above, #)
	Water – Hydrologic	Changes in precipitation patterns, hydrological cycles	<ol style="list-style-type: none"> 1. Timing of precipitation events (date) 2. Intensity of precipitation events (inches) 3. Patterns of streamflow (multiple variables, such as seasonal highs and lows; frequency and duration of bank-full or greater events; intensity, frequency and duration of low flow events) for urban sites 4. Mean stream, lake and other water body temperatures (degrees Fahrenheit)
	Living Resources	Changes in distribution and populations of temperature sensitive plants and animal species	<ol style="list-style-type: none"> 1. Distribution/population of temperature sensitive aquatic species (fish, benthos) (#) 2. Changes in plant communities attributable to heat, drought and other factors related to climate change (e.g., decline of urban forests, tree species intolerant to heat and drought) (# or %) 3. Changes in distribution/abundance of plant, animal, diseases and invasive species due to changes in climate (# or %)

	Human Health, Socio-Economic Measures	Alterations of human health or economics associated with climate change	<ol style="list-style-type: none"> 1. Illnesses and deaths reported due to heat stress (#) 2. New illnesses reported for disease range extensions attributable to changes in climate (dengue fever, malaria) (#) 3. Disease reports associated with air quality (asthma, others, see Health measures, below) (#) 4. Energy costs and infrastructure costs associated with extreme weather events (\$)
IV. Socio-Economic Measures			
General Points <ul style="list-style-type: none"> • Different Agencies will be collecting this information and supplying it to Location Leaders • Measures apply to the geographic locations that are part of the Partnership Location 			
Neighborhood	Housing	Occupancy and property values	<ol style="list-style-type: none"> 1. Percent of residential properties that are vacant or abandoned (%) 2. Count of vacant residential lots (#) 3. Median residential sales price (\$)
	Economic Activity	Commercial occupancy and activity	<ol style="list-style-type: none"> 1. Count of commercial leases (#) 2. Gross regional product (\$) 3. Vacant lots/buildings newly occupied by commercial entities (#) 4. Number of local jobs (# full-time equivalents) 5. Number of local jobs in local recreation (# full-time equivalents) 6. Unemployment rate (#)
	Crime	Criminal activity	<ol style="list-style-type: none"> 1. Number of domestic violence calls for service (#) 2. Count of drug-related offenses (#) 3. Number of juvenile arrest rates (#)
	Recreation	Access to recreation	<ol style="list-style-type: none"> 1. Percent of population within ½ mile of green/open space (%) 2. Miles of maintained walking, hiking, biking trails (#) 3. Count of locals engaged in outdoor recreation / # of visitor days (#) 4. Number of vacant lots transformed to community gardens or pocket parks (#)
	Transportation	Transportation	<ol style="list-style-type: none"> 1. Travel time to work (minutes) 2. Number using walk and/or bike to work (#)
Family Statistics	Income	Standard of living	<ol style="list-style-type: none"> 1. Median household income (\$) 2. Percent of individuals living below the poverty line (%) 3. Percent of families with children under 18 living below the poverty line (%) 4. Percent of students receiving free or reduced price meals (%)

	Health	Health statistics	<ol style="list-style-type: none"> 1. Teen Birth Rate (#) 2. Number of children with lead in their blood (#) 3. Number of people with vaccine-preventable diseases (#) 4. Percent of emergency room visits not emergency related (%) 5. Number of children hospitalized for asthma or asthma-related illnesses (#)
	Education	Level of education	<ol style="list-style-type: none"> 1. Percent of population 25-64 with a high school diploma only (%) 2. High school completion rate (%)
Community Engagement	Community Engagement	Degree of community engagement and civic activities	<ol style="list-style-type: none"> 1. Percent of population registered to vote (%) 2. Percent of population that voted in general election (%) 3. Number of neighborhood associations and block clubs (#) 4. Number of community development corporations (#) 5. Number of park and environmental stewardship groups (#) 6. Number of healthy neighborhoods initiative programs (#)